John West, Satheesh Kumar, Andy Kim

METHOD AND SYSTEM FOR CONVERSION OF AUTOMATION TEST SCRIPTS INTO ABSTRACT TEST CASE REPRESENTATION WITH PERSISTENCE

ABSTRACT

A general technique using semantic analysis is provided that can be used for converting a specific automation test script (and its underlying test case), generated from generally available or proprietary test automation tools, into an abstract test case representation. The abstract test case representation is based on a test case representation model that includes application states (state information), external interaction sequences (control flow information) and input data. The abstract representation in essence provides a platform independent representation of test cases. An application object model provides the representational capabilities required for capturing structural and behavioral properties of the application under test. The abstract test case representation can be validated against and further enriched by specific object information from an application metadata repository. Finally, object information and input data can be separated from control flow information to provide automatic parameterization of the test script.